

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference Ca1 88975	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/013871	International filing date (day/month/year) 06/12/2004	(Earliest) Priority Date (day/month/year)
Applicant ENITECNOLOGIE S.P.A.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application; see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☒ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/013871

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C02F1/28 B01J20/18 C02F101/20 C02F101/30 C02F103/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C02F B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/002461 A (ENITECNOLOGIE S.P.A; VIGNOLA, RODOLFO; BERNARDI, ADRIANO; GRILLO, GIOV) 9 January 2003 (2003-01-09) cited in the application	20
A	the whole document	1-19
A	EP 0 914 864 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 12 May 1999 (1999-05-12) the whole document	1-20
A	US 5 730 948 A (KLATTE ET AL) 24 March 1998 (1998-03-24) the whole document	1-20
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

5 August 2005

Date of mailing of the international search report

17/08/2005

Name and mailing address of the ISA

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Liebig, T

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/013871

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT.

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PILCHOWSKI K, CHMIELEWSKA E: "Adsorptive Separation of 1,2-Dichlorethane from Model wastewater by Natural Clinoptilolite" ACTA HYDROCHIM. HYDROBIOL., vol. 31, no. 3, November 2003 (2003-11), pages 249-252, XP002339461 the whole document</p> <p>-----</p>	1-20

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/013871

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19

A process for the treatment of water contaminated by apolar organic compounds and/or heavy metals which consists in circulating the water through a system comprising at least two types of zeolites

2. claim: 20

A process for treatment of water contaminated by 1,2-dichloro-ethane which consists in circulating the water through a system comprising ZSM-5 alone

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/013871

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03002461	A	09-01-2003	IT MI20011362 A1	30-12-2002
			BG 108476 A	30-07-2004
			CZ 20033482 A3	14-07-2004
			EE 200400036 A	15-04-2004
			WO 03002461 A1	09-01-2003
			EP 1409413 A1	21-04-2004
			HR 20031047 A2	30-04-2004
			HU 0400388 A2	30-08-2004
			JP 2004533322 T	04-11-2004
			PL 367461 A1	21-02-2005
			SK 15992003 A3	03-08-2004
			US 2004206705 A1	21-10-2004
EP 0914864	A	12-05-1999	JP 3417309 B2	16-06-2003
			JP 11192427 A	21-07-1999
			EP 0914864 A2	12-05-1999
			US 6147023 A	14-11-2000
US 5730948	A	24-03-1998	US 5567405 A	22-10-1996
			US 5464598 A	07-11-1995
			US 5278112 A	11-01-1994
			WO 9636372 A1	21-11-1996
			AU 2433295 A	21-08-1996
			WO 9623726 A1	08-08-1996
			US 5573743 A	12-11-1996
			US 5776850 A	07-07-1998
			AU 8082194 A	29-05-1995
			WO 9513122 A1	18-05-1995
			US 5833739 A	10-11-1998
			US 5314852 A	24-05-1994